

535,103

Rec'd PCT/PTO 16 MAY 2005

10/535103

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
27 May 2004 (27.05.2004)

PCT

(10) International Publication Number
WO 2004/044424 A1

(51) International Patent Classification⁷: **F04B 43/09**,
43/08

19350 Kibbutz Izrael (IL). **OZERI, Shaul** [IL/IL]; Gorin-
man 42, Ramat-Aviv, 69972 Tel-aviv (IL).

(21) International Application Number:
PCT/IL2003/000947

(74) Agent: **REINHOLD COHN AND PARTNERS**; P.O.
Box 4060, 61040 Tel Aviv (IL).

(22) International Filing Date:
12 November 2003 (12.11.2003)

(81) Designated States (*national*): AE, AG, AL, AM, AT, AU,
AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR,
CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD,
GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR,
KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN,
MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU,
SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA,
UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
152865 14 November 2002 (14.11.2002) IL

(71) Applicant (*for all designated States except US*): **Q-CORE
LTD.** [IL/IL]; "Beit Legav", 24 Ben Gurion Street, 52573
Ramat Gan (IL).

(84) Designated States (*regional*): ARIPO patent (BW, GH,
GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW),
Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),
European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE,
ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE,
SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA,
GN, GQ, GW, ML, MR, NE, SN, TD, TG).

(72) Inventors; and

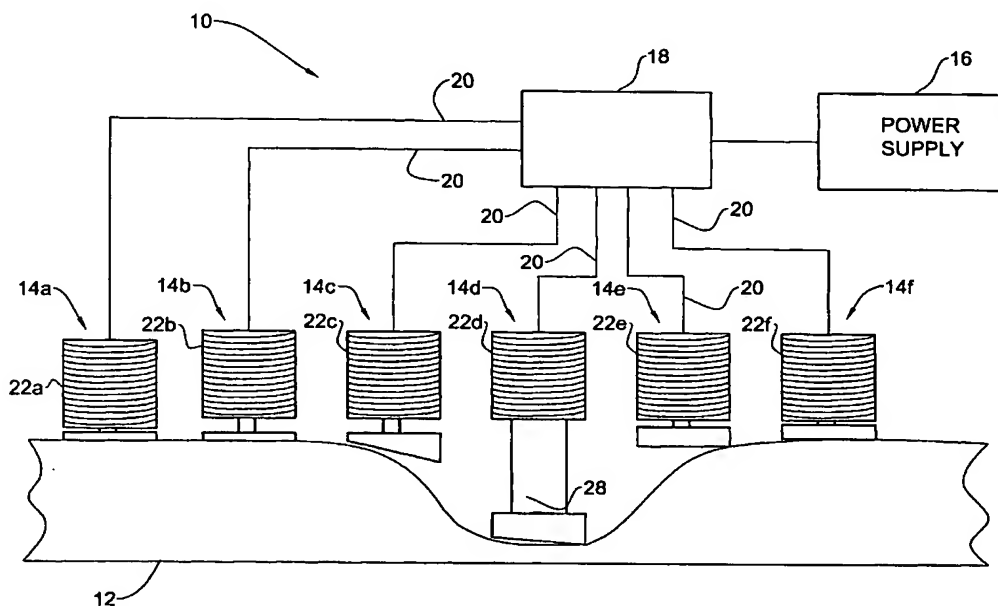
(75) Inventors/Applicants (*for US only*): **BEN SHALOM**,
Zvi [IL/IL]; Ha'Chartzit 33, P.O. Box 2724, 81514 Yavne
(IL). **GOLDOR, Ori** [IL/IL]; Ha'Shesek 20, P.O.Box
1519, 37808 GIVAT ADA (IL). **SHABAT, Roni** [IL/IL];

Published:

— with international search report

[Continued on next page]

(54) Title **PERISTALTIC PUMP**



(57) Abstract: A pump for generating fluid flow in an elastic tubular conduit. The pump comprises a plurality of electrically operated valves, each valve being positionable adjacent to the conduit. Each valve has a valve head configured to alternate from a first position in which the lumen of the conduit adjacent to the valve head is unobstructed and a second position in which the lumen of the conduit adjacent to the valve head is obstructed. The pump also comprises a driver configured to control the positions of the valve heads, so as to execute a predetermined temporo-spatial array of valve head positions.

WO 2004/044424 A1



For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.